

What is claimed is:

Sub C 1 1. A method for forwarding an incoming call addressed to one of a  
2 plurality of Directory Numbers belonging to a subscriber, including:  
3 receiving an incoming call to a fixed-site device at one of a plurality  
4 of numbers belonging to the subscriber;  
5 determining that a busy/no-answer condition exists for the fixed-site  
6 device;  
7 consulting a call forward setting for the subscriber; and  
8 performing a call forwarding action to a mobility device based upon  
9 the call forward setting of the subscriber.

1 2. The method of claim 1, wherein the fixed site device is a fixed-site  
2 telephone belonging to the subscriber, and the incoming call is received at a Class 5  
3 Switch associated with the subscriber's fixed-site telephone.

1 3. The method of claim 2, wherein the Class 5 Switch attempts to deliver  
2 the incoming call to the subscriber's fixed-site device, determines that a busy/no-  
3 answer condition exists at the device, consults the subscriber's call forward setting,  
4 wherein the call forward setting is stored in the Class 5-Switch, and based upon the  
5 subscriber's call forward setting, forwards the call to a mobility device belonging to  
6 the subscriber.

1 4. The method of claim 1, wherein the incoming call is received by a Class  
2 5 Switch that stores a call forward setting for the subscriber, and wherein performing  
3 a call forwarding action includes sending the call to a Mobile Switching Center  
4 associated with the Directory Number of the subscriber's mobility device.

1 5. The method of claim 4, further including:  
2 receiving a request for routing information from the Mobile  
3 Switching Center at a Home Location Register;

4 consulting a subscriber profile stored at the Home Location Register;  
5 and  
6 sending routing information from the Home Location Register to the  
7 Mobile Switching Center, wherein the routing information is based  
8 upon the subscriber profile stored at the Home Location Register.

1 6. The method of claim 5, further including routing the call to the mobility  
2 device in accordance with the routing information received from the Home Location  
3 Register.

1 7. The method of claim 6, further including:  
2 detecting a busy/no-answer condition at the mobility device; and  
3 routing the call to voice mail.

1 8. A method for forwarding an incoming call addressed to one of a  
2 plurality of telephone numbers belonging to a subscriber, including:  
3 receiving an incoming call to a mobility device at one of a plurality of  
4 numbers belonging to the subscriber;  
5 determining that a busy/no-answer condition exists for the mobility  
6 device;  
7 consulting a call forward setting for the subscriber; and  
8 performing a call forwarding action to a fixed-site device based upon  
9 the call forward setting of the subscriber.

Sub 1 9. The method of claim 8, wherein the incoming call is received at a  
C2 2 Mobile Switching Center associated with the Directory Number of the subscriber's  
3 mobility device, and wherein consulting a call forward setting for the subscriber  
4 includes:  
5 sending a request for routing information from the Mobile Switching  
6 Center to a Home Location Register storing a subscriber profile; and

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receiving routing information from the Home Location Register at the  
Mobile Switching Center, where the routing information is based  
upon the subscriber profile stored at the Home Location Register.

1 10. The method of claim 9, wherein performing a call forwarding action  
2 includes forwarding the call to a Class 5 Switch associated with the subscriber's  
3 fixed-site telephone.

1 11. The method of claim 10, wherein performing a call forwarding action  
2 further includes delivering the call to the subscriber's fixed-site telephone through  
3 the Class 5 Switch.

1 12. The method of claim 11, wherein performing a call forwarding action  
2 further includes:  
3 determining that a busy/no-answer condition exists at the subscriber's  
4 fixed-site telephone; and  
5 sending the call to voicemail through the Class 5 Switch.

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3 13. A medium storing instructions adapted to be executed by a processor  
4 to perform steps including:  
5 receiving an incoming call directed to a fixed-site device belonging to  
6 the subscriber, the fixed-site device being identified by a fixed-site  
7 Directory Number, which is one of a plurality of Directory Numbers  
8 that belong to the subscriber;  
9 determining that the fixed-site device is either busy, or that there is no  
10 answer at the fixed-site device;  
11 consulting a subscriber profile that describes how to forward an  
12 incoming call for the subscriber; and  
forwarding the incoming call to a subscriber mobility device based  
upon the subscriber profile.

1           14. The medium of claim 13, wherein the instructions are adapted to be  
2   executed by a processor in a Class 5 Switch.

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2           15. A medium storing instructions adapted to be executed by a processor  
3   to perform steps including:  
4           receiving an incoming call directed to a mobility device belonging to  
5           the subscriber, the mobility device being identified by a mobility  
6           Directory Number, which is one of a plurality of Directory Numbers  
7           that belong to the subscriber;  
8           determining that the mobility device is either busy, or that there is no  
9           answer at the mobility device; and  
10          forwarding the incoming call to a subscriber mobility device based  
            upon information in a subscriber profile.

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2   executed by a processor in a Mobile Switching Center.

1           17. The medium of claim 15, wherein the forwarding the incoming call to  
2   a subscriber includes:  
3           sending a routing request to a Home Location Register storing a  
4           subscriber profile;  
5           receiving routing information for the call from the Home Location  
6           Register based upon the subscriber profile; and  
7           routing the call in accordance with the routing information received  
8           from the Home Location Register.

1           18. An apparatus for forwarding an incoming call to one of a plurality of  
2   Directory Numbers belonging to a subscriber, including:  
3           a processor;  
4           a memory coupled to said processor, said memory storing instructions  
5           adapted to be executed by said processor to receive an incoming call

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8 sent to the subscriber's fixed-site Directory Number, determining that  
9 a busy/no-answer condition exists for the device at the fixed-site  
10 Directory Number, consult a subscriber profile containing call  
11 forward information for the subscriber, and forward the call to a  
subscriber mobility device, based upon the subscriber profile  
information.

1 19. An apparatus for forwarding an incoming call to one of a plurality of  
2 Directory Numbers belonging to a subscriber, including:  
3 a processor;  
4 a memory coupled to said processor, said memory storing instructions  
5 adapted to be executed by said processor to receive an incoming call  
6 sent to the subscriber's mobility Directory Number, determining that  
7 a busy/no-answer condition exists for the device at the mobility  
8 Directory Number, consult a subscriber profile containing call  
9 forward information for the subscriber, and forward the call to a  
10 subscriber fixed-site device, based upon the subscriber profile  
11 information.

1 Sub C5  
2 20. The apparatus of claim 19, wherein the instructions are further adapted  
3 to send a request for routing information to a Home Location Register storing the  
4 subscriber profile, to receive routing information from the Home Location Register  
5 based upon the subscriber profile, and to route the call to a fixed-site device in  
accordance with the routing information.

1 21. An apparatus for determining routing information for a call, including:  
2 a processor;  
3 a memory coupled to said processor, said memory storing a  
4 subscriber profile and instructions adapted to be executed by said  
5 processor to receive a routing request, formulate a routing instruction

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6 based upon the subscriber profile, and send the routing instruction to  
7 an external entity.

1 22. The apparatus of claim 21, wherein the external entity is a switch.